AUTODOC CLUB

How to change front lower arm on **MERCEDES-BENZ V-Class (W638/2)** – replacement guide

SIMILAR VIDEO TUTORIAL

This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:
MERCEDES-BENZ V-Class (W638/2) V 230 TD (638.274), MERCEDES-BENZ V-Class (W638/2) V 230 (638.234, 638.294), MERCEDES-BENZ V-Class (W638/2) V 280 (638.244, 638.294), MERCEDES-BENZ V-Class (W638/2) V 200 (638.214, 638.294), MERCEDES-BENZ V-Class (W638/2) V 200 CDI (638.294), MERCEDES-BENZ V-Class (W638/2) V 220 CDI (638.294)

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ Vito Minibus (W638) 112 CDI 2.2 (638.194)

REPLACEMENT: FRONT LOWER ARM – MERCEDES-BENZ V-CLASS (W638/2). LIST OF THE TOOLS YOU'LL NEED:

- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 8
- Drive socket # 19
- Combination spanner #18
- Combination spanner #21
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat chisel
- Hammer
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

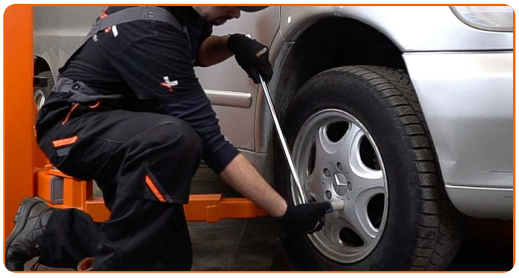
Replacement: front lower arm – MERCEDES-BENZ V-Class (W638/2). AUTODOC recommends:

- The replacement procedure is identical for the left and right lower control arms.
- All work should be done with the engine stopped.

REPLACEMENT: FRONT LOWER ARM – MERCEDES-BENZ V-CLASS (W638/2). USE THE FOLLOWING PROCEDURE:

1 Secure the wheels with chocks.

2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



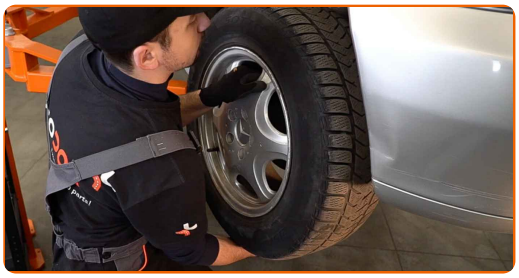
3 Raise the front of the car and secure on supports.

4 Unscrew the wheel bolts.

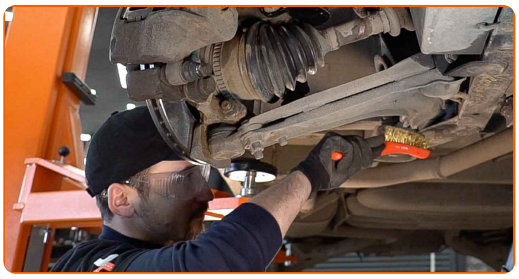
AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ V-Class (W638/2)

5 Remove the wheel.



6 Clean all joints of the arm. Use a wire brush. Treat all joints of the arm. Use WD-40 spray.



AUTODOC recommends:

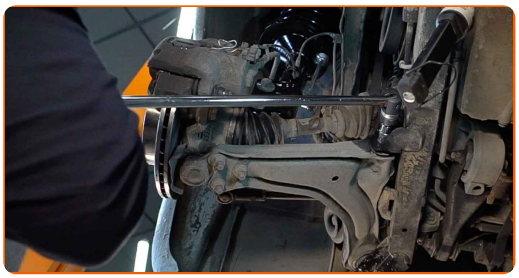
- Replacement: front lower arm – MERCEDES-BENZ V-Class (W638/2). After applying the spray, wait a few minutes.
- Wear protective goggles.

7 Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #21 (2 pieces).

8 Unscrew and remove the wheel arch cover fasteners. Use a drive socket #8. Use a ratchet wrench.

9 Remove the wheel arch cover.

10 Unscrew the front arm fastener. Use a combination spanner #18. Use a drive socket #19. Use a ratchet wrench.



11 Remove the fastening bolt. Use a crowbar.

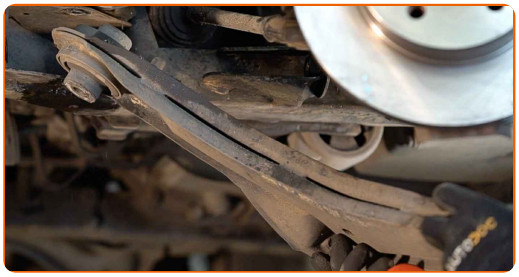
12 Unscrew the rear arm fastener. Use a combination spanner #21. Use a drive socket #19. Use a ratchet wrench.

13 Clean the fastener connecting the ball joint to the steering knuckle. Use WD-40 spray.

14 Release the fastener connecting the ball joint to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

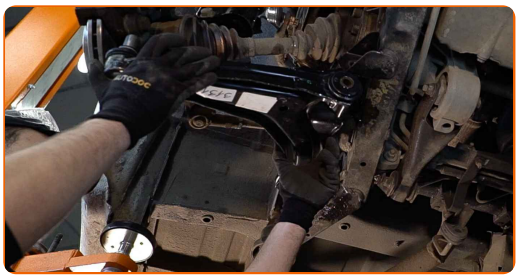
15 Disconnect the spherical joint from the arm. Use a crowbar.

16 Remove the arm. Use a crowbar.



17 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.

18 Install a new arm.

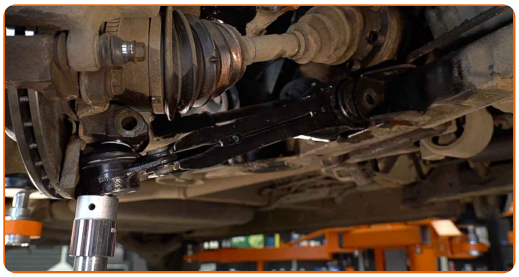


Replacement: front lower arm – MERCEDES-BENZ V-Class (W638/2). AUTODOC experts recommend:

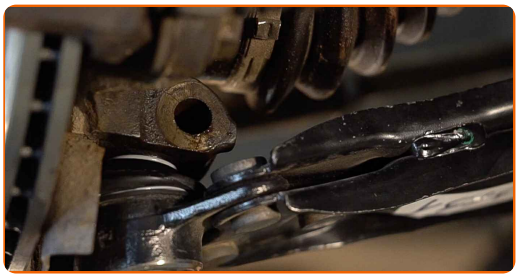
- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

19 Connect the ball joint to the steering knuckle.

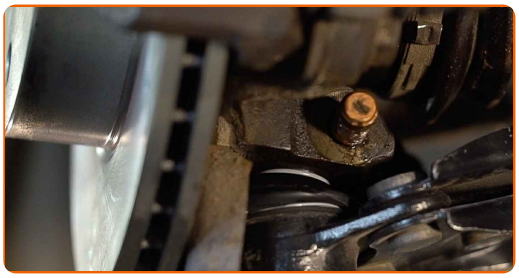
20 Support the arm. Use a hydraulic transmission jack.



21 Take the flat chisel out of the steering knuckle.

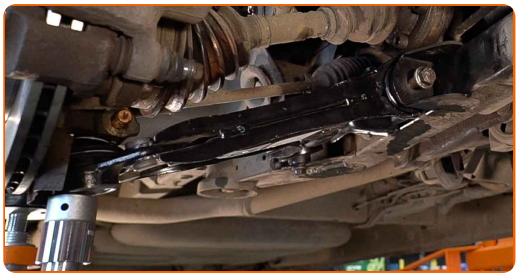


22 Install the fastening bolt. Do not tighten it.



23 Screw the rear arm fastener. Use a drive socket #19. Use a combination spanner #21. Use a ratchet wrench.

24 Raise the hydraulic transmission jack by 10-15 cm.

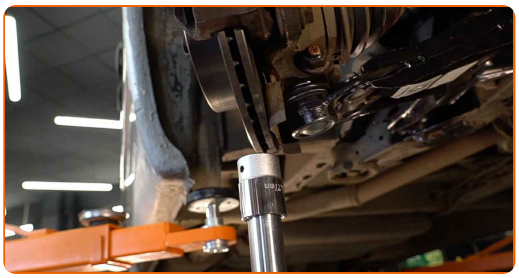


25 Tighten the front fastener connecting the control arm to the subframe. Use a drive socket #19. Use a torque wrench. Tighten it to 155 nm torque.

26 Tighten the rear fastener of the control arm. Use a drive socket #19. Use a combination spanner #21. Use a torque wrench. Tighten it to 90 nm torque.

27 Tighten the ball joint fastener. Use a combination spanner #21. Use a torque wrench. Tighten it to 162 nm torque.

28 Remove the support from under the arm.



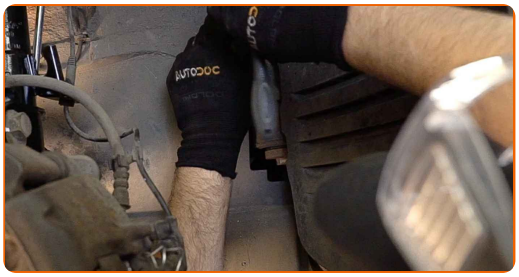
AUTODOC recommends:

- Replacement: front lower arm – MERCEDES-BENZ V-Class (W638/2). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

29 Treat all joints of the arm. Use copper grease.

30 Install the wheel arch cover to its mounting seat.

31 Install and tighten the wheel arch cover fasteners. Use a drive socket #8. Use a ratchet wrench.



32 Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.

33 Install the wheel.

Replacement: front lower arm – MERCEDES-BENZ V-Class (W638/2). Tip from AUTODOC:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

34 Screw in the wheel bolts. Use wheel impact socket #17.

35 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 175 nm torque.

36 Remove the jacks and chocks.

WELL DONE!

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